

10/542314

Rec'd PCT/PTO 15 JUL 2005

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, by the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below.

IPEA/_____

PCT**CHAPTER II****DEMAND**

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference P62557PC00
International application No PCT/EP04/000402	International filing date (day/month/year) January 15, 2004	(Earliest) Priority date (day/month/year) January 17, 2003
Title of invention Disposable defibrillator electrode assembly		
Box No. II APPLICANT(S)		
Name and address: (Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country.) Heartsine Technologies Limited Canberra House 203 Airport Road West Belfast BT3 9ED United Kingdom		Telephone No. Facsimile No Teleprinter No Applicant's registration No. with the Office
State (that is, country) of nationality: GB	State (that is, country) of residence: GB	
Name and address: (Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country.) SMIRLES, William J. 1260 Anthony Lane Deerfield, IL 60015 USA		
State (that is, country) of nationality: US	State (that is, country) of residence: US	
Name and address: (Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country.) ANDERSON, Johnny, Houston 58 Ardmore Road Holywood County Down BT18 0JP United Kingdom		
State (that is, country) of nationality: GB	State (that is, country) of residence: GB	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet		

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The following person is agent common representative
 and has been appointed earlier and represents the applicant(s) also for international preliminary examination
 is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.
 is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: (<i>Family name followed by given name, for a legal entity, full official designation The address must include postal code and name of country</i>) F.R. Kelly & Co. 27 Clyde Road Ballsbridge Dublin 4	Telephone No + 353 1 231 4848
	Facsimile No
	Teleprinter No
	Agent's registration No. with the Office

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent

Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION**Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

the international application as originally filed
 the description as originally filed
 as amended under Article 34
 the claims as originally filed
 as amended under Article 19 (together with any accompanying statement)
 as amended under Article 34
 the drawings as originally filed
 as amended under Article 34

2. The applicant wishes any amendment to the claims under Article 19 to be considered as reversed
 3. The applicant wishes the start of the international preliminary examination to be postponed until the expiration of the applicable time limit under Rule 69 I(d)
 4. The applicant expressly wishes the international preliminary examination to start earlier than at the expiration of the applicable time limit under Rule 54bis.I(a)

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended

Language for the purposes of international preliminary examination: English

which is the language in which the international application was filed.
 which is the language of a translation furnished for the purposes of international search
 which is the language of publication of the international application
 which is the language of the translation (to be) furnished for the purposes of international preliminary examination

Box No. V ELECTION OF STATES

The filing of this demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the PCT

Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

1. translation of international application	:	0 sheets
2. amendments under Article 34	:	2 sheets
3. copy (or, where required, translation) of amendments under Article 19	:	0 sheets
4. copy (or, where required, translation) of statement under Article 19	:	0 sheets
5. letter	:	1 sheets
6. other (specify)	:	0 sheets

For International Preliminary Examining Authority use only

received	not received
<input type="checkbox"/>	<input type="checkbox"/>

The demand is also accompanied by the item(s) marked below:

1 <input checked="" type="checkbox"/> fee calculation sheet	5 <input type="checkbox"/> statement explaining lack of signature
2. <input type="checkbox"/> original separate power of attorney	6. <input type="checkbox"/> sequence listing in computer readable form
3. <input type="checkbox"/> original general power of attorney	7. <input type="checkbox"/> tables in computer readable form related to a sequence listing
4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:	8. <input type="checkbox"/> other (specify):

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand)

Lindsay J Casey - Authorised Representative

For International Preliminary Examining Authority use only

1 Date of actual receipt of DEMAND:

2 Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3 The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply

The applicant has been informed accordingly.

4. The date of receipt of the demand is WITHIN the time limit of 19 months from the priority date as extended by virtue of Rule 80.5.

5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

6 The date of receipt of the demand is AFTER the expiration of the time limit under Rule 54bis 1(a) and item 7 or 8, below, does not apply

7 The date of receipt of the demand is WITHIN the time limit under Rule 54bis 1(a) as extended by virtue of Rule 80.5

8 Although the date of receipt of the demand is after the expiration of the time limit under Rule 54bis 1(a), the delay in arrival is EXCUSED pursuant to Rule 82

For International Bureau use only

Demand received from IPEA on:

CHAPTER II**PCT****FEE CALCULATION SHEET****Annex to the Demand**

International application No	PCT/EP04/000402	For International Preliminary Examining Authority use only
Applicant's or agent's file reference	P62557PC00	Date stamp of the IPEA
Applicant Heartsine Technologies Limited		
CALCULATION OF PRESCRIBED FEES		
1. Preliminary examination fee	1530.00	P
2. Handling fee (<i>Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.</i>)	129.00	H
3 Total of prescribed fees <i>Add the amounts entered at P and H and enter total in the TOTAL box</i>	1659.00	TOTAL
MODE OF PAYMENT		
<input checked="" type="checkbox"/> authorization to charge deposit account with the IPEA (see below)	<input type="checkbox"/> cash	
<input type="checkbox"/> cheque	<input type="checkbox"/> revenue stamps	
<input type="checkbox"/> postal money order	<input type="checkbox"/> coupons	
<input type="checkbox"/> bank draft	<input type="checkbox"/> other (<i>specify</i>)	

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT
(*This mode of payment may not be available at all IPEAs*)

IPEA/ _____

 Authorization to charge the total fees indicated above

Deposit Account No: 28060009

 (*This check-box may be marked only if the conditions for deposit accounts of the IPEA so permit*) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above

Date: 17 November 2004

Name: Lindsay J Casey

Signature: _____

10/542314

JC17 Rec'd PCT/PCT 15 JUL 2005

Claims

1. A portable defibrillator comprising a housing containing defibrillator circuitry and a disposable electrode assembly external to said housing, the electrode assembly comprising two defibrillator electrodes, at least one battery for powering the defibrillator circuitry, and a connector for connecting the electrode and battery to the defibrillator housing,
5 wherein the connector has power output terminals for connecting the at least one battery to the defibrillator circuitry and at least one high voltage input terminal for receiving a defibrillation voltage to be applied to the electrodes, and wherein the electrodes have a stowage location on the defibrillator housing and the defibrillator has means for automatically connecting power to the defibrillator circuitry upon deployment of the electrodes.
- 10 2. A defibrillator as claimed in claim 1, wherein the defibrillation electrodes are electrically connected by a frangible connection which is broken when the electrodes are deployed for use, and wherein the defibrillator circuitry determines when the frangible link is broken to complete a power supply circuit in
15 the defibrillator housing.
- 20 3. A defibrillator as claimed in claim 1, wherein when the electrodes are in their stowage location an insulating member interrupts a power supply circuit in
25 the defibrillator housing, and wherein the insulating member cooperates with the electrodes such that removal of the electrodes from their stowage location causes

removal of the insulating member from the power supply circuit and resultant completion of said circuit.

4. A defibrillator as claimed in claim 1 or 2,
5 wherein the electrode assembly comprises a common
housing for the defibrillation electrodes and the at
least one battery, the common electrode/battery housing
being removably fitted to the defibrillator housing and
having power output and high voltage input terminals
10 for connection to corresponding terminals on the
defibrillator housing.

5. A defibrillator as claimed in claim 4, wherein the
common housing is slidable into a complementary recess
15 in the defibrillator housing, the sliding movement
bringing the terminals on the two housings into
engagement.

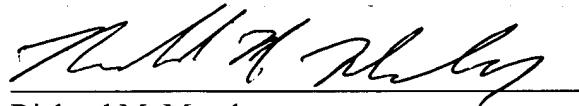
6. A defibrillator claimed in claim 5, wherein the
20 common housing comprises a shallow upper tray-like
recess for accommodating the defibrillator electrodes
and a deeper battery-containing recess occupying part
of the area of the tray-like recess whereby the common
housing has a stepped lower surface, wherein the
25 defibrillator housing has a stepped recess
complementary to that of the lower surface of the
common housing, wherein the common housing is slid into
the recess in the defibrillator housing from an edge
thereof in a direction substantially parallel to the
30 plane of the tray-like recess, and wherein the engaging
terminals are located on riser portions of the lower
surface of the common housing and the complementary
recess in the defibrillator housing.

10/542314

CERTIFICATE OF FILING BY EXPRESS MAIL

JC17 Rec'd PCTN/AJ 15 JUL 2005

This is to certify that this Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371, copy of the International Application as filed, Amendment to the claims of the International Application, and Preliminary Amendment, were mailed by U.S. Express Mail, receipt no. EV597837861US, to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, this 15th day of July, 2005.



Richard M. Mescher
Porter, Wright, Morris & Arthur LLP
41 South High Street
Columbus, Ohio 43215
(614) 227-2026

Title: DISPOSABLE DEFIBRILLATOR
ELECTRODE ASSEMBLY